

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).

1 2. (Currently Amended) The jaw implant according to claim 417, wherein the
2 interface between the implant body and the implant top portion is planar and
3 oriented at a right angle to the longitudinal axis of the implant body.

1 3. (Currently Amended) The jaw implant according to claim 417, wherein the
2 interface between the implant body and the implant top has a profile adapted
3 to a cone-shaped cross-section of the jaw.

1 4. (Previously Presented) The jaw implant according to claim 3, wherein the
2 profile is inclined toward a buccal side and a lingual side of the jaw.

1 5. (Previously Presented) The jaw implant according to claim 3, wherein the
2 profile toward the buccal side and the lingual side is rounded, conforming to
3 the shape of the cross section of the jaw.

1 6. (Previously Presented) The jaw implant according to claim 3, wherein the
2 profile toward the buccal side and the lingual side has a bell shape
3 approximating the shape of the cross section of the jaw.

1 7. (Currently Amended) The jaw implant according to claim 3, wherein the
2 implant top portion is elastically deformable in the interface area under
3 pressure of the connecting screw, when the connecting screw is tightened.

1 8. (Currently Amended) The jaw implant according to claim 7, wherein the
2 implant top portion has a profile which is adapted by elastic deformation in
3 the interface area to the profile of the implant body under the pressure of the
4 connecting screw when the connecting screw is tightened.

9. (Canceled).

1 10. (Currently Amended) ~~The jaw implant according to claim 7 further~~
2 comprising~~A jaw implant having an implant body and an implant top portion~~
3 which is attached to the implant body at an interface area by a screw and
4 serves as a carrier for a dental prosthesis and has a borehole comprising: a
5 through-borehole for the connecting screw and a recess forming a supporting
6 area for the screw head,
7 wherein
8 the supporting area is designed as a truncated cone surrounding the
9 through-borehole, the connecting screw comprises, at the underside of the
10 screw head, a female taper being adapted to the truncated cone of the
11 implant top portion, the female taper and the truncated cone being brought
12 into close contact with each other by pressure generated by the screw when
13 the screw is tightened, whereby the truncated cone and the female taper
14 cause a centering of the implant top portion on the implant body without
15 exerting pressure in the direction of the periphery of the implant top portion
16 so that a widening of the circumference of the implant top portion is
17 prevented and wherein the interface area between the implant body and the
18 implant top portion has a profile adapted to a cone-shaped cross-section of
19 the jaw, the implant top portion is elastically deformable in the interface area
20 under pressure of the connecting screw, when the connecting screw is
21 tightened and a groove is arranged in a recess in the implant top portion and

22 having has a ring shape around the truncated cone to increase the elastic
23 deformability of the implant top portion in the interface area.

1 11. (Previously Presented) The jaw implant according to claim 10, wherein the
2 ring groove has a profile on which one flank is formed by the conical surface
3 of the truncated cone.

1 12. (Currently Amended) The jaw implant according to claim 8 , wherein inclined
2 faces on the buccal side and on the lingual side in the interface area of the
3 implant body form an a first angle (α) which is larger than an a second angle
4 (α') between corresponding inclined surfaces on the buccal side and on the
5 lingual side in the interface area of the implant top portion; and the difference
6 between the first and second angles (α and α') is such that it is within the
7 elastic deformability range of the implant top portion where the first angle (α)
8 increases under the pressure of the connecting screw and is adapted to the
9 second angle $\alpha'(\alpha')$ when the connecting screw is tightened.

1 13. (Currently Amended) The jaw implant according to claim 8, comprising
2 rounded surfaces on the buccal side and the lingual side which have smaller
3 radii of curvature in the interface area of the implant top portion than
4 corresponding rounded surfaces on the buccal side and on the lingual side in
5 the interface area of the implant body; and wherein the difference in
6 curvature is such that it is within the elastic deformability range of the implant
7 top portion, where the curvature in the interface area of the implant top
8 increases under the pressure of the connecting screw and is adapted to the
9 curvature in the interface area of the implant body when the connecting
10 screw is tightened.

1 14. (Previously Presented) The jaw implant according to claim 13, wherein the
2 rounded surfaces in the interface area of the implant top portion and the
3 rounded surfaces in the interface area of the implant body are circular.

1 15. (Currently Amended) The jaw implant according to claim 8, comprising-an
2 approximately bell-shaped profile in the interface area of the implant top
3 portion having smaller radii of curvature in a concave part than an
4 approximately bell-shaped profile in the interface area of the implant body in
5 a corresponding convex part; and wherein the difference in curvature is
6 adjusted in its dimension such that it is within the elastic deformability range
7 of the implant top portion, where the curvature in the interface area of the
8 implant top portion increases under the pressure of the connecting screw and
9 is adapted to the curvature in the interface area of the implant body when the
10 connecting screw is tightened.

1 16. (Currently Amended) The jaw implant according to claim 13~~15~~, wherein the
2 concave part in the interface area of the implant top portion and the convex
3 part in the interface area of the implant body are circular.

1 17. (New) A jaw implant comprising:
2 an implant body having a longitudinal axis;
3 a top portion having a through-borehole, a first end that mates with the
4 implant body at an interface, and, at a second opposing end, a cylindrical recess
5 arranged coaxially with the through-borehole, the bottom of the cylindrical recess
6 being formed as a truncated cone with a surface surrounding the through-
7 borehole and a cone base facing towards the first end; and
8 a connecting screw that passes through the through-borehole and
9 engages a threaded borehole in the implant body in order to attach the top
10 portion to the implant body, wherein the connecting screw has a head, the
11 underside of which has a recess with a surface in the form of a negative cone

12 with a cone base facing toward the first end when the connecting screw is in
13 place, the recess surface being parallel to and engaging the truncated cone
14 surface to generate a pressure in the direction of the longitudinal axis when the
15 connecting screw is tightened without exerting pressure on a circumference of
16 the top portion.